

Title (en)

Filter device for fluids, in particular fuels

Title (de)

Filtereinrichtung für Fluide, insbesondere für Kraftstoffe

Title (fr)

Dispositif de filtre pour fluide, notamment pour carburant

Publication

EP 2239034 A3 20131023 (DE)

Application

EP 10157668 A 20100325

Priority

DE 102009016601 A 20090408

Abstract (en)

[origin: EP2239034A2] The fluid filtering device (1) has a water outlet connection (11) that is directed outwardly from filter housing (2) through a recess in a cover (3) of the housing and designed as one piece with a heating support (15) of a heating device (6). A drainage channel (10) is arranged within filter housing and connected with the heating support. The channel is in fluid flow communication with a water collection chamber (9). The collected water from the drainage channel is delivered to the exterior of the housing through the water outlet connection.

IPC 8 full level

B01D 35/18 (2006.01); **B01D 27/08** (2006.01); **B01D 36/00** (2006.01); **F02M 37/22** (2006.01)

CPC (source: EP US)

B01D 27/08 (2013.01 - EP US); **B01D 35/18** (2013.01 - EP US); **B01D 36/005** (2013.01 - EP US); **B01D 36/006** (2013.01 - EP US); **F02M 37/28** (2018.12 - EP US); **F02M 37/30** (2018.12 - EP US); **B01D 2201/34** (2013.01 - EP US)

Citation (search report)

- [X] DE 102007010503 A1 20080911 - BOSCH GMBH ROBERT [DE]
- [A] GB 2140319 A 19841128 - FORD MOTOR CO
- [A] EP 0631044 A1 19941228 - BOSCH GMBH ROBERT [DE]
- [A] EP 1702662 A1 20060920 - FILTRAUTO [FR]

Cited by

DE102017201683A1; US8038872B2; CN105251264A; EP2614869A1; EP3023135A1; US10006421B2; US8231779B2; DE102014010389A1; WO2018091667A1; DE102014011443A1; DE102014011443B4

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)

AL BA ME RS

DOCDB simple family (publication)

EP 2239034 A2 20101013; **EP 2239034 A3 20131023**; **EP 2239034 B1 20180627**; DE 102009016601 A1 20101021; EP 3391950 A1 20181024; ES 2678449 T3 20180810; PL 2239034 T3 20181231; US 2010258491 A1 20101014; US 2012037548 A1 20120216; US 8038872 B2 20111018; US 8231779 B2 20120731

DOCDB simple family (application)

EP 10157668 A 20100325; DE 102009016601 A 20090408; EP 18177625 A 20100325; ES 10157668 T 20100325; PL 10157668 T 20100325; US 201113231197 A 20110913; US 75569210 A 20100407